



## MATERIAL SAFETY DATA SHEET

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PBI/GORDON CORPORATION, KANSAS CITY, MO. PHONE 816-421-4070  
AFTER HOURS 913-342-8783

DATE PREPARED: 8/28/91  
REVISION NUMBER: 7

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PRODUCT CODE: 700

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## ----- SECTION I - PRODUCT IDENTIFICATION -----

PRODUCT NAME: QUADMEC TRIMEC PLUS  
EPA REG NO.: 2217-709

## DEPARTMENT OF TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: (14) COMPOUND TREE OR WEED KILLING LIQUID/DRY  
HAZARD CLASSIFICATION: NONE  
NMFC CLASSIFICATION NUMBER: 50320 CLASS: 60  
DESCRIPTION: NONE

## ----- SECTION II - HAZARDOUS COMPONENTS -----

CAS	INGREDIENT	%	TLV-TWA
94-75-7	2,4-DICHLOROPHENOXYACETIC ACID (2,4-D)	4.84	10 MG/M3
93-65-2	2-(2-METHYL-4-CHLOROPHENOXY)PROPIONIC ACID (MECOPROP)	4.84	NE
1918-00-9	3,6-DICHLORO-O-ANISIC ACID (DICAMBA)	1.21	NE
2163-80-6	MONOSODIUM SALT OF METHANEARSONIC ACID (MSMA)	18.00	0.5MG/M3
124-40-3	DIMETHYLAMINE (DMA)	3.35	10 PPM

## ----- SECTION III - PHYSICAL DATA -----

BOILING POINT, 760MM/HG: 212 F	MELTING POINT: NA
SPECIFIC GRAVITY (H2O=1): 1.20	FREEZING POINT: <35 F
VAPOR DENSITY (AIR=1): >1	VAPOR PRESSURE: <17MM HG AT 20 C.
% VOLATILES BY VOLUME: 65	SOLUBILITY IN H2O: INFI
APPEARANCE: VISCOUS LIQUID	ODOR: AMINE ODOR
PH: 7.0-8.5	DENSITY AT 20 C: 10.0 LBS/GAL
OCTANOL/PARTITION COEF: NA	VISCOSITY: 1,700 - 2000 CP
EVAPORATION RATE (BUTYL ACETATE = 1): <1	

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----- SECTION IV - FIRE AND EXPLOSION HAZARD INFORMATION -----

FLASH POINT (CLOSED CUP) RANGE: 142 F  
EXPLOSION LIMIT (%): LOWER: NA UPPER: NA  
AUTO IGNITION TEMPERATURE: NA  
FLAMMABLE LIMITS IN AIR, % BY VOLUME: NA  
EXTINGUISHING MEDIA: FOAM, CO2, DRY CHEMICAL, WATER, LARGE FIRES: WATER  
SPRAY/FOG/FOAM  
SPECIAL FIRE FIGHTING PROCEDURES: 1) WEAR POSITIVE PRESSURE BREATHING  
APPARATUS AND FULL PROTECTIVE CLOTHING 2) FIGHT FIRE FROM MAXIMUM DISTANCE  
3) ISOLATE HAZARD AREA AND DENY ENTRY 4) STAY UP WIND, KEEP OUT OF LOW  
AREAS.  
UNUSUAL FIRE AND EXPLOSION HAZARDS: 1) THIS PRODUCT MAY BURN AT A VERY HIGH  
TEMPERATURE BUT WILL NOT IGNITE READILY 2) THE FIRE MAY PRODUCE IRRITATING  
OR POISONOUS GASES 3) RUN OFF FROM FIRE CONTROL AREA OR DILUTION WATER MAY  
CAUSE POLLUTION 4) IN CASE OF WATER POLLUTION, CALL LOCAL AUTHORITIES.

----- SECTION V - HEALTH HAZARD INFORMATION -----

ACUTE ORAL LD50: 6700 MG/KG (RATS)  
ACUTE DERMAL LD50: >2000 MG/KG (RABBIT)  
PRIMARY DERMAL IRRITATION: MILD IRRITATION (RABBIT)  
PRIMARY EYE IRRITATION: MAY CAUSE EYE IRRITATION OR BURNS  
INHALATION 4 HR LC50: >3.3MG/L  
CHRONIC EFFECTS: MODERATELY IRRITATING TO SKIN, EYES, RESPIRATORY AND  
GASTROINTESTINAL LININGS. INGESTION OF LARGE AMOUNTS MAY RESULT IN SEVERE  
METABOLIC ACIDOSIS FOLLOWED BY MYOTONIA, MYOGLOBINAURIA AND ELEVATED  
SERUM CREATINE PHOSPHOKINASE.  
EMERGENCY AND FIRST AID PROCEDURES:  
EYES: FLUSH CONTAMINATING CHEMICAL FROM EYES WITH COPIOUS AMOUNTS OF  
CLEAN WATER FOR 10-15 MINUTES.  
SKIN: BATHE AND SHAMPOO WITH SOAP AND WATER TO REMOVE CHEMICALS FROM  
SKIN AND HAIR. INDIVIDUALS WITH CHRONIC SKIN DISEASE OR KNOWN  
SENSITIVITY TO CHEMICALS SHOULD AVOID CONTACT.  
INHALATION: IF SYMPTOMS OF ILLNESS OCCUR DURING OR AFTER INHALATION, RE-  
MOVE VICTIM FROM CONTACT WITH MATERIAL FOR AT LEAST 2 DAYS.  
ALLOW SUBSEQUENT CONTACT ONLY WITH EFFECTIVE PROTECTION.  
ORAL: IF SUBSTANTIAL AMOUNT OF PRODUCT IS INGESTED, SPONTANEOUS EMESIS  
USUALLY OCCURS. IF THIS HAS NOT OCCURED, & IF VICTIM IS FULLY  
ALERT INDUCE EMESIS WITH SYRUP OF IPECAC, FOLLOWED BY SLURRY OF  
ACTIVATED CHARCOAL AND CALL EMERGENCY MEDICAL CARE.  
NOTES TO PHYSICIAN: SYRUP OF IPECAC - 30ML FOR ADULTS 12 YRS AND OLDER  
15ML FOR CHILDREN UNDER 12 YRS; ACTIVATED CHARCOAL 30-50 GRAMS IN SLURRY OF  
6-8 OZ TAP WATER. TREATMENT IS ENTIRELY SYMPTOMATIC.

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----- SECTION VI - REACTIVITY INFORMATION -----

MATERIAL REACTS VIOLENTLY WITH: NONE KNOWN  
HAZARDOUS DECOMPOSITION PRODUCTS: IGNITION GASES MAY CONTAIN HYDROGEN  
CHLORIDE & VOLATILE ORGANOARSENICALS

HAZARDOUS POLYMERIZATION: IS NOT KNOWN TO OCCUR

INCOMPATIBILITY: MSMA MAY EVOLVE TOXIC ARSINE GAS IF MIXED WITH REDUCING  
AGENT. DO NOT MIX WITH HEAVY METAL SALTS.

----- SECTION VII - SPECIAL PROTECTION INFORMATION -----

PROTECTIVE EQUIPMENT SHOULD BE USED IN THE MANUFACTURE OR FORMULATION OF  
THIS PRODUCT, INCLUDING THE FOLLOWING:

RESPIRATORY PROTECTION: WHERE EXPOSURE LIMITS ARE EXCEEDED WEAR A SUITABLE  
RESPIRATOR (MSHA/NIOSH APPROVED OR EQUIVALENT).

VENTILATION: GOOD VENTILATION OF WORK PLACE IS ESSENTIAL.

PROTECTIVE CLOTHING: RUBBER GLOVES AND FULL PROTECTIVE CLOTHING

EYE PROTECTION: GOGGLES OR GLASSES

----- SECTION VIII - SPILL OR LEAK PROCEDURES -----

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
SMALL SPILL: 1) DO NOT TOUCH SPILLED PRODUCT 2) WEAR RUBBER GLOVES &  
PROTECTIVE CLOTHING 3) CONTAIN SPILL WITH DRI-RITE/SAND/NON-COMBUSTIBLE  
ABSORBENT - COLLECT INTO DOT DRUMS, COVER, MARK AND REMOVE 4) FLUSH AREA  
WITH WATER, IF POSSIBLE.

LARGE SPILL: 1) DO NOT TOUCH SPILLED PRODUCT 2) WEAR RUBBER GLOVES &  
PROTECTIVE CLOTHING/SHOES, NIOSH/MSHA APPROVED RESWPIRATOR FOR DUSTS AND  
MISTS 3) DIKE FAR AHEAD OF SPILL FOR LATER DISPOSAL 4) CONTAIN SPILL WITH  
DRI-RITE/SAND/NON-COMBUSTIBLE ABSORBENT - COLLECT INTO DOT DRUMS, COVER,  
MARK AND REMOVE 5) WASH AREA WITH WATER.

WASTE DISPOSAL METHODS: RCRA ID NO. U-240 RQ: 100 LBS.  
DISPOSE OF DOT DRUM, WASTE WATER AND ANY OTHER WASTE ACCORDING TO EPA  
APPROVED METHODS.

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----- SECTION IX - SPECIAL PRECAUTIONS -----

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS - WARNING - CAUSES SUBSTANTIAL EYE INJURY. DO NOT GET IN EYES OR ON CLOTHING. WEAR GOGGLES OR FACE SHIELD. HARMFUL IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN. WASH THOROUGHLY WITH SOAP & WATER AFTER HANDLING. REMOVE CONTAMINATED CLOTHING & WASH BEFORE REUSE.

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: FLUSH WITH PLENTY OF WATER. GET MEDICAL ATTENTION. IF SWALLOWED DRINK PROMPTLY A LARGE QUANTITY OF MILK, EGG WHITES, GELATIN SOLUTION, OR IF THESE ARE NOT AVAILABLE, DRINK LARGE QUANTITIES OF WATER. AVOID ALCOHOL. IF ON SKIN: WASH WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

STORAGE AND DISPOSAL STATEMENTS:

STORAGE & DISPOSAL: STORAGE: STORE IN ORIGINAL CONTAINER IN A LOCKED STORAGE AREA. OUT OF REACH OF CHILDREN OR PETS. KEEP FROM FREEZING. TO PREVENT CROSS-CONTAMINATION, DO NOT STORE NEAR OTHER PESTICIDES, FERTILIZERS, SEED FOOD OR FEED. PRODUCT DISPOSAL: DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL. PESTICIDE WASTES ARE TOXIC. IMPROPER DISPOSAL OF EXCESS PESTICIDE SPRAY MIXTURE OR RINSATE IS A VIOLATION OF FEDERAL LAW. IF THESE WASTES CANNOT BE DISPOSED OF BY USE ACCORDING TO LABEL INSTRUCTIONS, CONTACT YOUR STATE PESTICIDE OR ENVIRONMENTAL CONTROL AGENCY, OR THE HAZARDOUS WASTE REPRESENTATIVE AT THE NEAREST EPA REGIONAL OFFICE FOR GUIDANCE. CONTAINER DISPOSAL: TRIPLE RINSE (OR EQUIVALENT). THEN OFFER FOR RECYCLING OR RECONDITIONING, OR PUNCTURE AND DISPOSE OF IN A SANITARY LANDFILL, OR INCINERATOR, OR IF ALLOWED BY STATE AND LOCAL AUTHORITIES, BY BURNING. IF BURNED STAY OUT OF SMOKE.

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----- SECTION X - ADDITIONAL INFORMATION -----

SECTION 313 SUPPLIER NOTIFICATION --- THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS#	CHEMICAL NAME	% BY WEIGHT
N/A	ARSENIC COMPOUND ( AS% 8.3)	18.0
94-75-7	2,4-D ACID	4.8

THIS INFORMATION MUST BE INCLUDED IN ALL MATERIAL SAFETY DATA SHEETS THAT ARE COPIED AND DISTRIBUTED FOR THIS MATERIAL.

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THE INFORMATION AND STATEMENTS IN THIS MATERIAL SAFETY DATA SHEET ARE BELIEVED TO ACCURATELY REFLECT THE SCIENTIFIC EVIDENCE USED IN MAKING THE HAZARD DETERMINATION BUT IS NOT TO BE CONSTRUED AS A WARRANTY OR REPRESENTATION FOR WHICH WE ASSUME LEGAL RESPONSIBILITY. ADDITIONAL INFORMATION MAY BE NECESSARY OR DESIRABLE DEPENDING ON PARTICULAR, EXCEPTIONAL OR VARIABLE CONDITIONS OR CIRCUMSTANCES OF USE OR STORAGE OR BECAUSE OF LOCALLY APPLICABLE LAWS OR GOVERNMENT REGULATIONS. THEREFORE, YOU SHOULD USE THIS INFORMATION ONLY AS A SUPPLEMENT TO OTHER INFORMATION AVAILABLE TO YOU AND MUST MAKE INDEPENDENT DETERMINATIONS OF THE SUITABILITY OF THE INFORMATION FOR YOUR PARTICULAR CIRCUMSTANCES OR CONDITIONS AND OF THE COMPLETENESS OF THE INFORMATION AVAILABLE FROM ALL SOURCES TO ASSURE BOTH THE PROPER USE OF THE MATERIAL DESCRIBED HEREIN AND THE SAFETY AND HEALTH OF EMPLOYEES.